

# FILE NOTATIONS

Entered in N I D File

Entered On S R Sheet

Location Map Pinned

Card Indexed

I W R for State or Fee Land

Checked by Chief

Copy N I D to Field Office

Approval Letter

Disapproval Letter

## COMPLETION DATA:

Date Well Completed

6-22-60

Location Inspected

OW

WW

TA

Bond released

GW

OS

PA

State of Fee Land

## LOGS FILED

Driller's Log

63060

Electric Logs (No. )

2

E

I

E-I

GR

GR-N

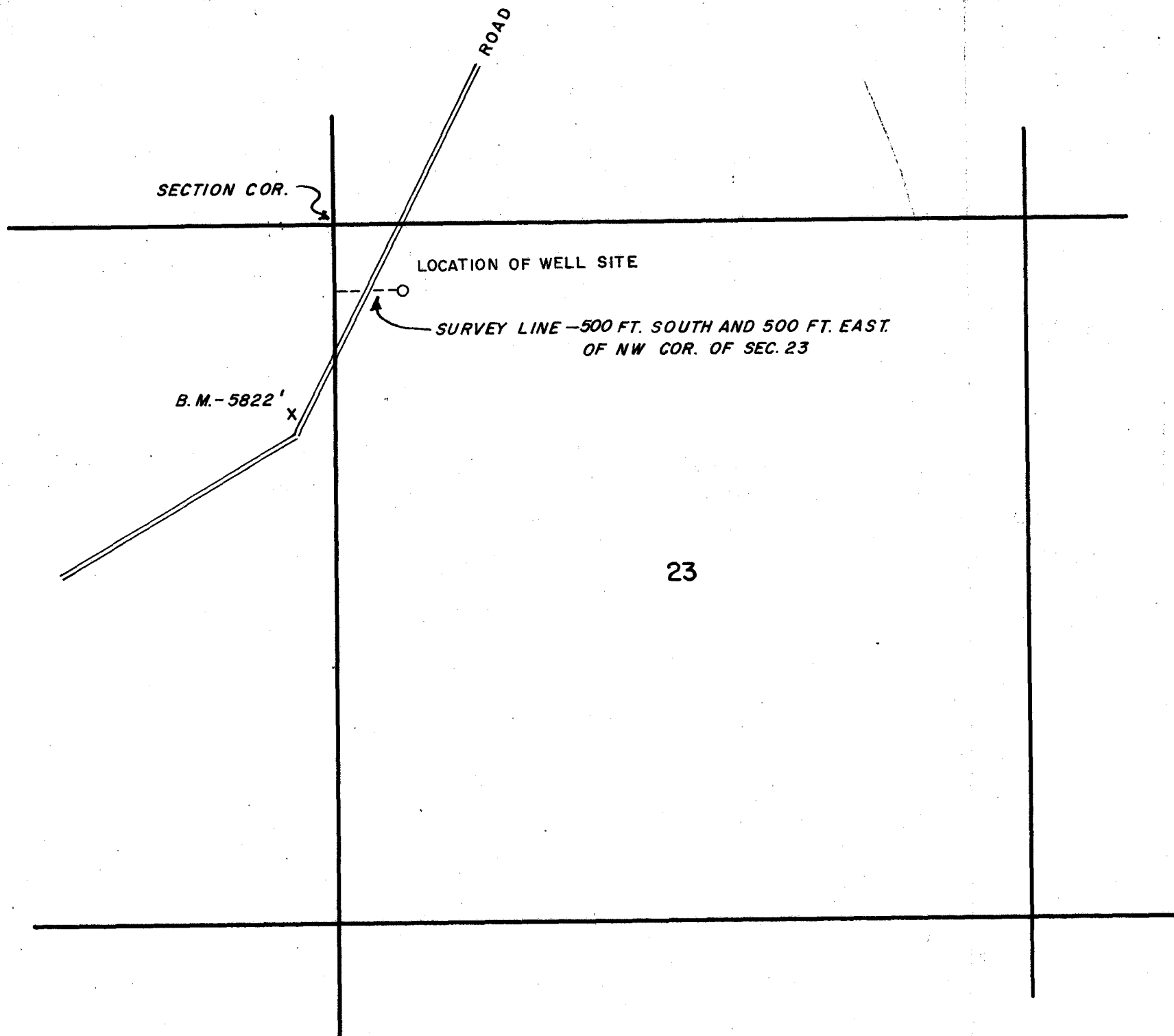
Micro

Lat

Mi-L

Sonic

Others



SURVEY PLAT  
OF  
WELL SITE

FOR HILL CREEK Fed. No. 1 Well  
NW. NW. Sec. 23, T11S, R19E  
UINTAH COUNTY, UTAH  
SURVEYED BY W. DON QUIGLEY  
MARCH 26, 1960  
SCALE 1 INCH = 1000 FT

*W. Don Quigley*

|   |  |  |  |
|---|--|--|--|
| 0 |  |  |  |
|   |  |  |  |
|   |  |  |  |
|   |  |  |  |

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office .....

Lease No. 0784

Unit .....

## SUNDRY NOTICES AND REPORTS ON WELLS

|   |                                     |   |  |
|---|-------------------------------------|---|--|
| NOTICE OF INTENTION TO DRILL.....                   | <input checked="" type="checkbox"/> | SUBSEQUENT REPORT OF WATER SHUT-OFF.....        |  |
| NOTICE OF INTENTION TO CHANGE PLANS.....            |                                     | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING..... |  |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....     |                                     | SUBSEQUENT REPORT OF ALTERING CASING.....       |  |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL..... |                                     | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR..... |  |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....        |                                     | SUBSEQUENT REPORT OF ABANDONMENT.....           |  |
| NOTICE OF INTENTION TO PULL OR ALTER CASING.....    |                                     | SUPPLEMENTARY WELL HISTORY.....                 |  |
| NOTICE OF INTENTION TO ABANDON WELL.....            |                                     |   |  |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

April 25, 19 60

Hill Creek Federal  
Well No. 1 is located 500 ft. from N line and 500 ft. from W line of sec. 23NW/4 NW/4  
(¼ Sec. and Sec. No.)11 South 19 East  
(Twp.) (Range)Salt Lake  
(Meridian)Wildcat  
(Field)Uintah  
(County or Subdivision)Utah  
(State or Territory)The elevation of the derrick floor above sea level is 5795 ft. (Ground)

## DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Uintah - Surface  
Green River - 90'  
Douglas Creek - 2580'  
Wasatch - 3780'  
Est. T.D. - 5100'

## Casing Program

13 3/8" I.D. @ 250' Circulate  
Cement to surface.

5 1/2" O.D. 14# @ 5100'

Primary objective Wasatch  
Gas possibilities in Lower Green River and Wasatch

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Shamrock Oil and Gas CorporationAddress 1192 First Security Building  
Salt Lake City 11, Utah

Ralph Thomas

By Ralph ThomasTitle District Geologist

April 25, 1960

The Shamrock Oil and Gas Corporation  
1192 First Security Building  
Salt Lake City 11, Utah

Attention: Ralph Thomas, Dist. Geologist

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Hill Creek Federal #1, which is to be located 500 feet from the north line and 500 feet from the west line of Section 23, Township 11 South, Range 19 East, S1M, Uintah County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well has not been spudded within said period.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

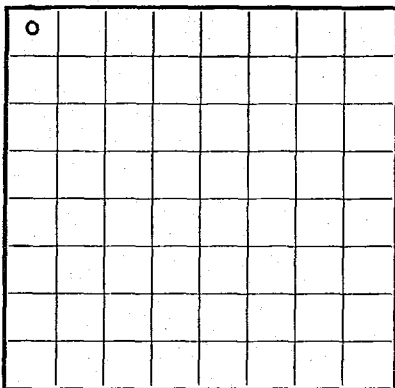
CLEON B. FEIGHT,  
EXECUTIVE SECRETARY

CBF:awg

cc: Don F. Russell, Dist. Eng.  
U. S. Geological Survey  
Salt Lake City, Utah



U. S. LAND OFFICE Utah  
 SERIAL NUMBER U-0784  
 LEASE OR PERMIT TO PROSPECT \_\_\_\_\_



LOCATE WELL CORRECTLY

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

Company The Shamrock Oil and Gas Corp. Address 1192 First Security Bldg., S.L.C., Ut.  
 Lessor or Tract U-0784 Field Wildcat State Utah  
 Well No. 1 Sec. 23 T. 11S R. 19E Meridian Salt Lake County Uintah  
 Location 500 ft. XX of N Line and 500 ft. EW of W Line of Sec. 23 Elevation 5805  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon  
 so far as can be determined from all available records.

Signed Ralph Thomas

Date June 28, 1960 Title District Geologist

The summary on this page is for the condition of the well at above date.

Commenced drilling May 20, 1960 Finished drilling June 23, 1960

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4692 to 4695 slt G show No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

No. 1, from 90 to 150 No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from 2315 to 2460 (salt wtr) No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

| Size casing | Weight per foot | Threads per inch | Make | Amount | Kind of shoe | Cut and pulled from | Perforated |     | Purpose      |
|-------------|-----------------|------------------|------|--------|--------------|---------------------|------------|-----|--------------|
|             |                 |                  |      |        |              |                     | From—      | To— |              |
| 13 3/8      | 43#             |                  | H.C. | 238    | Guide        | None                |            |     | shut off wtr |
|             |                 |                  |      |        |              |                     |            |     |              |
|             |                 |                  |      |        |              |                     |            |     |              |
|             |                 |                  |      |        |              |                     |            |     |              |
|             |                 |                  |      |        |              |                     |            |     |              |
|             |                 |                  |      |        |              |                     |            |     |              |
|             |                 |                  |      |        |              |                     |            |     |              |

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used         | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|---------------------|-------------|--------------------|
| 13 3/8      | 253       | 225                    | Pumped plug to 238' | cement      | circulated         |
|             |           |                        |                     |             |                    |
|             |           |                        |                     |             |                    |
|             |           |                        |                     |             |                    |
|             |           |                        |                     |             |                    |

## PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_

OLD MARK

# **MUDDING AND CEMENTING RECORD**

| Size casing | Where set | Number sacks of cement | Method used         | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|---------------------|-------------|--------------------|
| 13 3/8      | 253       | 225                    | Pumped plug to 238' | cement      | circulated         |
|             |           |                        |                     |             |                    |
|             |           |                        |                     |             |                    |
|             |           |                        |                     |             |                    |

## **PLUGS AND ADAPTERS**

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
 Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

## **SHOOTING RECORD**

| Size | Shell used | Explosive used | Quantity | Date | Depth shot | Depth cleaned out |
|------|------------|----------------|----------|------|------------|-------------------|
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |

## **TOOLS USED**

Rotary tools were used from Surface feet to 5487 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## **DATES**

\_\_\_\_\_, 19\_\_\_\_ Put to producing \_\_\_\_\_, 19\_\_\_\_  
 The production for the first 24 hours was None barrels of fluid of which \_\_\_\_\_% was oil; \_\_\_\_\_% emulsion; \_\_\_\_\_% water; and \_\_\_\_\_% sediment. Gravity, °Bé. \_\_\_\_\_  
 If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
 Rock pressure, lbs. per sq. in. 14 1/2

## **EMPLOYEES**

\_\_\_\_\_, Driller \_\_\_\_\_, Driller  
 \_\_\_\_\_, Driller \_\_\_\_\_, Driller

## **FORMATION RECORD**

| FROM— | TO—  | TOTAL FEET | FORMATION                                   |
|-------|------|------------|---|
| 0     | 45   | 45         | Sandstone.                                  |
| 45    | 90   | 45         | Shale w/streaks of sandstone.               |
| 90    | 150  | 60         | Sand.                                       |
| 150   | 180  | 30         | Shaley sand and sandy shale.                |
| 180   | 200  | 20         | Marlstone.                                  |
| 200   | 270  | 70         | Sandstone w/streaks of limestone.           |
| 270   | 320  | 50         | Limestone.                                  |
| 320   | 1565 | 1245       | Dolomitic and calcareous oil shale.         |
| 1565  | 1605 | 40         | Sandstone and shale.                        |
| 1605  | 1670 | 65         | Oil shale.                                  |
| 1670  | 1800 | 130        | Sandstone w/streaks of shale and limestone. |
| 1800  | 1860 | 60         | Limestone.                                  |
| 1860  | 1890 | 30         | Sand and shale.                             |
| 1890  | 1930 | 40         | Limestone.                                  |
| 1930  | 1980 | 50         | Limestone w/streaks of shale.               |
| 1980  | 2010 | 30         | Sand and shale.                             |
| 2010  | 2030 | 20         | Limestone.                                  |
| 2030  | 2245 | 115        | Shale w/streaks of limestone and sandstone. |
| 2245  | 2275 | 30         | Limestone.                                  |
| 2275  | 2315 | 40         | Shale and shaley sandstone.                 |
| 2315  | 2460 | 145        | Sand.                                       |
| 2460  | 2480 | 20         | Limestone.                                  |
| 2480  | 2560 | 80         | Calcareous sandstone.                       |
| 2560  | 2620 | 60         | Sandstone.                                  |
| 2620  | 2670 | 50         | Sandstone and shale.                        |

## HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Spudded May 20, 1960.

Ran 8 joints 238.33' of 13 3/8" 48# (R-2 hc) casing @ 253' w/250 sx cement.

Lost circulation @ 1448' - stuck pipe on bottom and twisted off @ 447'.

Regained circulation and backed off @ 1397'.

Recovered fish.

Drilled to 1747' and lost circulation - pumped in 3 pits mud and regained circulation.

Stuck pipe @ 2704' - backed off @ 2351' washed over and recovered fish.

Resumed drilling.

@ 3318' added 1500 gallons diesel to mud.

Drilling break @ 4692' from 10 min. to 2 min. per ft. - had 15 units of methane gas.

Cored 4699 to 4719 rec 20.4' - 3" fine grained tight sandstone w/no stain or show,  
9" red shale, 1' fine grained tight shaley sandstone w/streaks  
of red and green shale, 13' red shale, 1' very fine grained  
tight sandstone, 4.4' red and green shale.

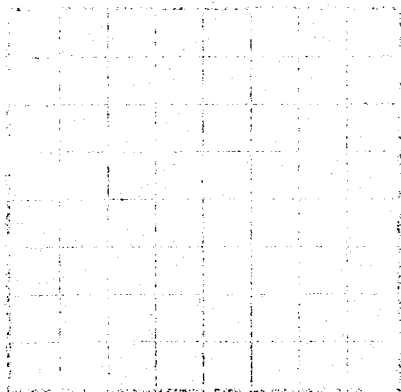
Ran Schlumberger Electric log survey to 5369'.

Drilled to 5487' (Total Depth)

Plugged: 30 sx @ 3993-4150, 30 sx 2143-2300, 30 sx 213-250, 10 sx @ surface  
drilling mud between all plugs.

Plugged and abandoned June 23, 1960

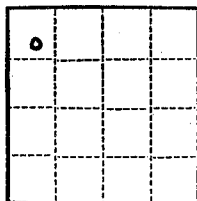
Electric log top - Wasatch 4136'





# FORMATION RECORD—Continued

| FROM— | TO—  | TOTAL FEET | FORMATION   |
|-------|------|------------|---|
| 2670  | 2720 | 50         | Limestone   |
| 2720  | 2870 | 140        | Sandstone w/streaks of shale.                       |
| 2870  | 2900 | 30         | Shale.  |
| 2900  | 3100 | 200        | Sand w/streaks of shale and limestone.              |
| 3100  | 3260 | 160        | Shale w/streaks of sand and limestone.              |
| 3260  | 3350 | 90         | Sandstone and shale.                                |
| 3350  | 3500 | 150        | Shale.  |
| 3500  | 3520 | 20         | Sandstone.  |
| 3520  | 3540 | 20         | Limestone   |
| 3540  | 3670 | 130        | Sandstone w/streaks of limestone.                   |
| 3670  | 4000 | 330        | Shale w/streaks of limestone and sandstone.         |
| 4000  | 4127 | 127        | Limestone w/streaks of shale (Top of Wasatch 4127') |
| 4127  | 4692 | 265        | Shale.  |
| 4692  | 4701 | 9          | Sandstone.  |
| 4701  | 4880 | 179        | Shale.  |
| 4880  | 4930 | 50         | Sandstone and shaley sandstone.                     |
| 4930  | 5065 | 135        | Shale.  |
| 5065  | 5085 | 25         | Sandstone.  |
| 5085  | 5190 | 105        | Shale.  |
| 5190  | 5275 | 85         | Sandstone.  |
| 5275  | 5487 | 212        | Shale   |
|       |      |            | TOTAL DEPTH 5487'                                   |



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Utah  
Lease No. U-0784  
Unit \_\_\_\_\_

SUNDRY NOTICES AND REPORTS ON WELLS

|  |  |          |
|--|--|----------|
| NOTICE OF INTENTION TO DRILL                   | SUBSEQUENT REPORT OF WATER SHUT-OFF        |          |
| NOTICE OF INTENTION TO CHANGE PLANS            | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING |          |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF     | SUBSEQUENT REPORT OF ALTERING CASING       |          |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR |          |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE        | SUBSEQUENT REPORT OF ABANDONMENT           |          |
| NOTICE OF INTENTION TO PULL OR ALTER CASING    | SUPPLEMENTARY WELL HISTORY                 |          |
| NOTICE OF INTENTION TO ABANDON WELL            | <u>Subsequent report of casing program</u> | <u>X</u> |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

June 24, 1960

Well No. 1 is located 500 ft. from N line and 500 ft. from W line of sec. 23  
NW/4 NW/4 Sec. 23 11 South - 19 East Salt Lake  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Wildcat Uintah Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5795 ft. (Ground)

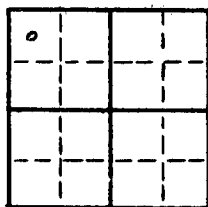
DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Ran 8 joints of 13 3/8 - 45 lb. (R-2 H.C.) casing  
Set @ 253' - cemented w/225 sz common cement 2% CaCl  
Cement circulated  
Pumped plug to 238'  
Plugged down @ 8:00 A.M. 5-24-60

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Shamrock Oil and Gas Corporation  
Address 1192 First Security Building  
Salt Lake City 11, Utah  
By Ralph Thomas  
Title District Geologist



STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

STATE CAPITOL BUILDING  
SALT LAKE CITY 14, UTAH

Fee and Patented.....☐  
State .....☐  
Lease No. ....  
Public Domain .....☒  
Lease No. U-0784  
Indian .....☐  
Lease No. ....

SUNDRY NOTICES AND REPORTS ON WELLS

|  |   |  |  |
|--|---|--|--|
| Notice of Intention to Drill.....                |   | Subsequent Report of Water Shut-off.....       |  |
| Notice of Intention to Change Plans.....         |   | Subsequent Report of Altering Casing.....      |  |
| Notice of Intention to Redrill or Repair.....    |   | Subsequent Report of Redrilling or Repair..... |  |
| Notice of Intention to Pull or Alter Casing..... |   | Supplementary Well History.....                |  |
| Notice of Intention to Abandon Well.....         | X |  |  |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

June 27, 1960

Well No. 1 is located 500 ft. from {N} line and 500 ft. from {E} line of Sec. 23  
NW/4 NW/4 Sec. 23 11 South 19 East S.L.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Wildcat Uintah Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5805 feet. KB

A drilling and plugging bond has been filed with Bureau of Land Management

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important work, surface formation, and date anticipate spudding-in.)

Request permission to plug and abandon because well is non-commercial

Proposed Plugs: 30 sx @ 3993-4150  
30 sx @ 2143-2300  
30 sx @ 213- 250  
10 sx @ Surface

Drilling mud to be between all plugs  
Total depth 5487'

Oral permission to plug and abandon obtained from Mr. H. C. Scoville

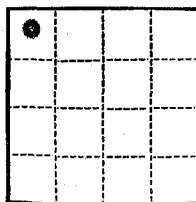
I understand that this plan of work must receive approval in writing by the Commission before operations may be commenced.

Company The Shamrock Oil and Gas Corporation

Address 1192 First Security Bldg.  
Salt Lake City 11, Utah

By Ralph J. Hansen  
Title District Geologist

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Utah  
Lease No. U-0784  
Unit \_\_\_\_\_

SUNDRY NOTICES AND REPORTS ON WELLS

|  |  |          |
|--|--|----------|
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| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR |          |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE        | SUBSEQUENT REPORT OF ABANDONMENT           |          |
| NOTICE OF INTENTION TO PULL OR ALTER CASING    | SUPPLEMENTARY WELL HISTORY                 |          |
| NOTICE OF INTENTION TO ABANDON WELL            | <u>Subsequent report of plugging</u>       | <u>X</u> |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

June 27, 1960

Well No. 1 is located 500 ft. from {N} line and 500 ft. from {E} line of sec. 23  
SW/4 NW/4 Sec. 23 11 South 19 East S.L.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Wildcat Uintah Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5805 ft. KB

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Total Depth 5487'

Plugs: 30 sx @ 3993-4150  
 30 sx @ 2143-2300  
 30 sx @ 213-250  
 10 sx @ Surface

Drilling mud between all plugs

Plugged and Abandoned June 23, 1960

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Shamrock Oil and Gas Corporation

Address 1192 First Security Building

Salt Lake City 11, Utah

By Ralph Shuman

Title District Geologist